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Application No.: 10/664,883

SEP 24 2007

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1 (Currently Amended): A stacked battery, comprising:

an electrode stacked body formed by stacking a sheet electrode and an electrolyte layer, the electrode including a single-layered collector, and the electrolyte layer being placed between the electrodes, wherein the collector has an approximately rectangular shape in a plane perpendicular to a stacking direction; and

a [[a]] packaging material housing the electrode stacked body, the packaging material having an opening which faces the stacking direction of the electrode stacked body,

wherein the electrodes are placed on outermost layers of the electrode stacked body in such a manner so that the single-layered collectors are exposed through the opening to an outside of the stacked battery in the stacking direction of the electrode stacked body and function as terminals, and

wherein a center of a surface of the collector, which is a surface perpendicular to the stacking direction of the electrode stacked body, is exposed through the opening to the outside of the stacked battery.

2 (Original): A stacked battery according to claim 1, wherein the electrode is a bipolar electrode, in which a positive electrode active material layer is formed on one surface of the collector and a negative electrode active material layer is formed on another surface of the collector, and

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the stacked battery is a bipolar lithium-ion secondary battery in which a plurality of the bipolar electrodes are stacked in series sandwiching the electrolyte layer therebetween.

3 (Original): A stacked battery according to claim 2,

wher cin the positive electrode active material includes a composite oxide of lithium and transition metal, and the negative electrode active material includes any one of a carbon and the composite oxide of lithium and transition metal.

4 (Original): A stacked battery according to claim 1,

wher cin the electrolyte layer includes a solid polymer.

5 (Currently Amended): An assembled battery, comprising:

a plurality of stacked batteries, each stacked battery according to claim 1,

wherein the adjacent two stacked battery is connected in series batteries are stacked so that the collector functioning as a positive terminal of one stacked battery and the collector functioning as a negative terminal of another stacked battery are in contact with each other.

6 (Currently Amended): An assembled battery, comprising:

a plurality of stacked batteries, each stacked battery according to claim 1,

wherein [[a]] the plurality of the stacked batteries are connected in parallel so that the stacked batteries are placed between two collecting plates, and a terminal functioning as the positive electrode of the stacked battery is connected to one of the collecting plates and a terminal functioning as the negative electrode of the same is connected to the other collecting plate the collector exposed through the opening to an outside of the stacked battery is in contact with one of the collecting plates.

7 (Previously Presented): A vehicle, comprising:

a stacked battery according to claim 1.

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8 (Previously Presented): A stacked battery according to claim 1,
wherein an edge of the opening in the laminated sheet is attached to the collector with a
sealing resin.

9 (Cancelled)

10 (Previously Presented): A stacked battery according to claim 1,
wherein the packaging material is composed of two laminate sheets in which the opening
is formed in a center thereof.

11 (Previously Presented): A stacked battery according to claim 1,

wherein the opening is an approximately rectangular-shaped opening.

12 (Currently Amended): A stacked battery comprising:

~~an electrode stacked body formed by stacking a sheet electrode and an electrolyte layer, the electrode including a collector, and the electrolyte layer being placed between the electrodes, wherein the collector has an approximately rectangular shape in a plane perpendicular to a stacking direction; and~~

~~a packaging material housing the electrode stacked body, the packaging material having an approximately rectangular opening which faces the stacking direction of the electrode stacked body,~~

~~wherein the electrodes are placed on outermost layers of the electrode stacked body in such a manner so that the collectors are exposed through the opening to an outside of the stacked battery in the stacking direction of the electrode stacked body and function as terminals, and according to claim 11, wherein edges of the approximately rectangular-shaped opening are attached to an outer periphery of the approximately rectangular-shaped collector by use of a sealing resin around the edges of the approximately rectangular opening.~~

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13 (Currently Amended): A stacked battery, comprising:

an electrode stacked body formed by stacking a sheet electrode and an electrolyte layer, the electrode including a single-layered collector, and the electrolyte layer being placed between the electrodes, wherein the collector has an approximately rectangular shape in a plane perpendicular to a stacking direction, wherein the electrode stacked body is disposed within a housing sealing internal portions of the electrode stacked body; and

a packaging material surrounding the electrode stacked body, the packaging material having an approximately rectangular opening which faces the stacking direction of the electrode stacked body,

wherein the electrodes are placed on outermost layers of the electrode stacked body in such a manner so that outermost single-layered collectors are exposed through the opening to an outside of the stacked battery in the stacking direction of the electrode stacked body and function as terminals, and

the packaging material and the outermost collectors together form said housing, and the outermost collectors form a substantial portion of the housing facing the stacking direction of the electrode stacked body.

14 (New): A stacked battery according to claim 1,

wherein the housing hermetically seals portions of the electrode stacked body internal to the outermost collectors.

15 (New): A stacked battery according to claim 13,

wherein a center of a surface of the collector, which is a surface perpendicular to the stacking direction of the electrode stacked battery, is exposed through the opening to the outside of the stacked battery.

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16 (New): A stacked battery according to claim 13,
wherein the packaging material is composed of two laminate sheets in which the opening
is formed in a center thereof.

17 (New): A stacked battery according to claim 13,
wherein edges of the approximately rectangular opening are attached to an outer
periphery of the approximately rectangular-shaped collector by use of a sealing resin around
edges of the approximately rectangular opening.

18 (New): A stacked battery according to claim 1,
wherein a thickness of the collector is within a range of 10 to 100 μ m.

19 (New): A stacked battery according to claim 13,
wherein a thickness of the collector is within a range of 10 to 100 μ m.